

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	20	US-3996468-\$.DID. OR US-5834783-\$.DID. OR US-6441384-\$.DID. OR US-20020104970-\$.DID. OR US-6465796-\$.DID. OR US-6563125-\$.DID. OR US-20040144920-\$.DID. OR US-6924488-\$.DID. OR US-6943349-\$.DID. OR US-7186975-\$.DID.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/10/06 12:17
S2	2	EP-1150327-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 12:18
S3	2	((("4982099") or ("4524278"))).PN.	US-PGPUB; USPAT	OR	OFF	2009/10/06 12:20
S4	7	((("20030089859") or ("5757409") or ("6624430") or ("20080017807") or ("20050201246") or ("7274018") or ("20030007143"))).PN.	US-PGPUB; USPAT	OR	OFF	2009/10/06 12:23
S5	131	(FROSIEN near2 JUERGEN).inv.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 12:57
S6	34	S5 and (aperture or orifice or (deflector near2 array) or (beam near2 split\$4)) and (focus\$4 with beam)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 13:10
S7	22795	((250/396R,396ML,306,307,309,310,311,492.1,492.2,492.3,505.1,515.1) or (850/9,63)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/06 13:23
S8	106	S7 and (beam near2 (split\$4 or divid\$4)) and (focus\$4 with location)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 13:24

S9	64	S8 and (scan\$4 with deflect\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 13:25
S10	38	S9 and (aperture with (shap\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 13:26
S11	32	S10 and (object\$4 near2 lens)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 13:26
S12	1592	S7 and (aperture or orifice or deflector) near3 (array or plurality or multiple or ((more or "at least") near2 (two one)) or cross)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 13:57
S13	16596	((particle or electron) near2 beam) and ((aperture or orifice or deflect\$4) with shap\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 14:14
S14	80	S13 and (sub?beam or beamlet or ((multiple or plurality or several) near2 beam)) with focus with (point location spot)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 14:16
S15	9	S14 and (condens\$4 near2 lens) and (object\$4 near2 lens) and ((emit\$4 or emission or source) with (particle or electrons))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 14:18

S16	35	S14 and (cross with (aperture or orifice or deflect\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 14:20
S17	1868	S13 and (single or "same") with (location point spot) with (beam or \$5beam or beam\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 14:25
S18	63	S17 and (scan\$4 same ((object\$4 or project\$4) near2 lens) same (condens\$4 near2 lens) same deflect\$4 same aperture)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 14:27
S19	81	S17 and (scan\$4 same ((object\$4 or project\$4) near2 lens) same (condens\$4 near2 lens) same deflect\$4 same focus\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 14:27
S20	50	S18 and S19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 14:27
S21	32	S20 and (aperture with shap\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 14:28
S23	90	S13 and (independent with beams with (divid\$4 or separat\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 14:33

S24	16	S23 and (focus\$4 with (location or point or spot) with plane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 14:34
S25	39	S23 and (focus\$4 with (location or point or spot) with \$5beam\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 14:40
S26	23	S25 not S24	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 14:40
S27	98	(boersch near2 effect)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 14:56
S28	33	S27 and (\$5beam\$5 with (divid\$4 or separat\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/06 14:57
S29	5	("2003/0168606").URPN.	USPAT	OR	ON	2009/10/06 15:00
S30	24	("20020130262"   "20020166964"   "20030085360"   "20030168606"   "3491236"   "3857034"   "4130761"   "4694178"   "4859856"   "5099130"   "5747801"   "5892224"   "6124592"   "6252412"   "6465783"   "6545274"   "6576893"   "6586746"   "6614026"   "6617587").PN. OR ("6943349").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/06 15:01
S31	6	("3996468").URPN.	USPAT	OR	ON	2009/10/06 15:07
S32	1	(aperture near2 plate) with (sub?area) with beam	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 06:15

S33	3055	(aperture near5 beam near5 limit\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 06:36
S34	1138	S33 and ((particle or electron) near2 beam)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 06:37
S35	299	S34 and (converg\$4 near4 beam)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 06:37
S36	120	S34 and ((converg\$4 near4 beam) with (sample or substrate or surface or wafer or specimen))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 06:38
S37	59	S36 and (image with (source virtual crossover cross?over cross))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 06:39
S38	13	S37 and (aperture with cross)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 06:39
S39	5	("4209698").URPN.	USPAT	OR	ON	2009/10/07 06:43
S40	796	(electron near2 beam) with (aperture with (stop block\$4 limit\$4))	USPAT	OR	ON	2009/10/07 06:45
S41	159	S40 and (condens\$4 near2 (system or lens)) and (object\$4 near2 (system or lens))	USPAT	OR	ON	2009/10/07 06:46
S42	90	S41 and (scan\$4 near2 deflect\$4)	USPAT	OR	ON	2009/10/07 06:46

S43	58	S42 and ((focus\$4 converg\$4) with (location or point or spot) with \$5beam\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 06:47
S44	49	S43 and (image with (source virtual crossover cross?over cross))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 06:48
S45	49	S44 not S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 06:48
S46	6	EP-0213664-\$.DID. OR EP-1150327-\$.DID. OR EP-1197985-\$.DID. OR EP-1463087-\$.DID.	EPO; JPO; DERWENT	OR	ON	2009/10/07 06:54
S47	91	(electron near2 beam) with (aperture near5 (cross near2 shap\$4))	USPAT	OR	ON	2009/10/07 07:05
S48	189	(electron near2 beam) and (aperture near5 (cross near2 shap\$4))	USPAT	OR	ON	2009/10/07 07:05
S49	70	S48 and (image with (source virtual crossover cross?over cross))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/07 07:05
S50	10	S49 and (condens\$4 near2 (system or lens)) and (object\$4 near2 (system or lens))	USPAT	OR	ON	2009/10/07 07:05
S51	6	("3714422"   "3996468"   "4608491"   "5866905"   "5900629").PN. OR ("7186975").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/07 07:16
S52	1	("6563125").URPN.	USPAT	OR	ON	2009/10/07 07:21

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